

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP 03/02084

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H01L21/84 H01L27/12 H01L21/762 H01L29/735

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched: (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 331 473 B1 (HIRABAYASHI YUKIYA) 18 December 2001 (2001-12-18) abstract; claims; figure 13	1,2,4-10
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 05, 30 June 1995 (1995-06-30) -& JP 07 038005 A (SONY CORP), 7 February 1995 (1995-02-07) abstract; figures	1-5,7,8
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 25, 12 April 2001 (2001-04-12) -& JP 2001 230423 A (INTERNATL BUSINESS MACH CORP), 24 August 2001 (2001-08-24) abstract; figures	1,2,4,5, 7,8
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search

10 December 2003

Date of mailing of the International search report

17/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Wirner, C

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP 03/02084

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 110 470 A (HUGHES AIRCRAFT CO) 15 June 1983 (1983-06-15) abstract; claims; figure 1 -----	1,2,4-10
X	PATENT ABSTRACTS OF JAPAN vol. 007, no. 084 (E-169), 7 April 1983 (1983-04-07) -& JP 58 012353 A (MATSUSHITA DENKI SANGYO KK), 24 January 1983 (1983-01-24) abstract; figures -----	1,2,4-10

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

Best Available Copy